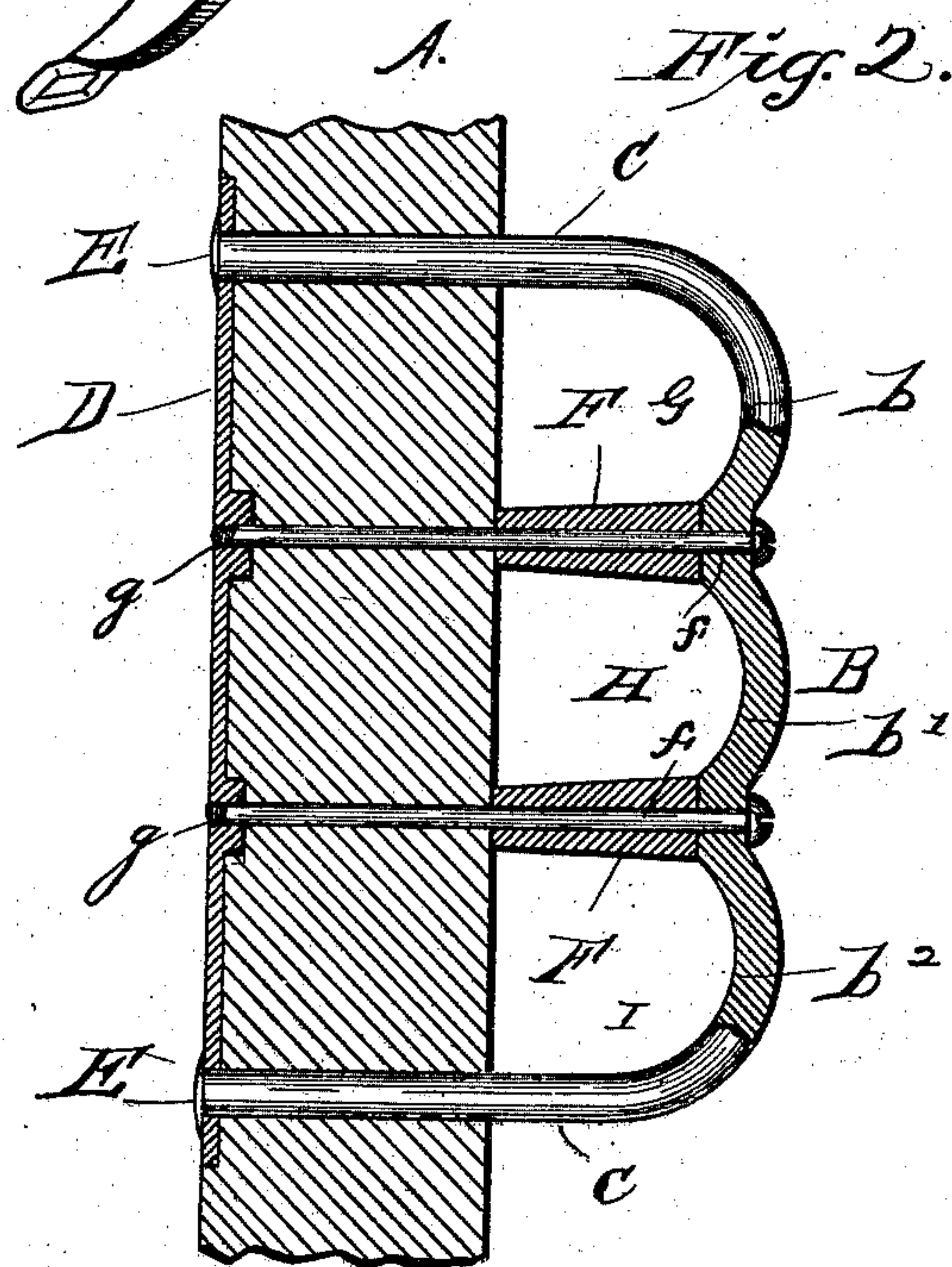
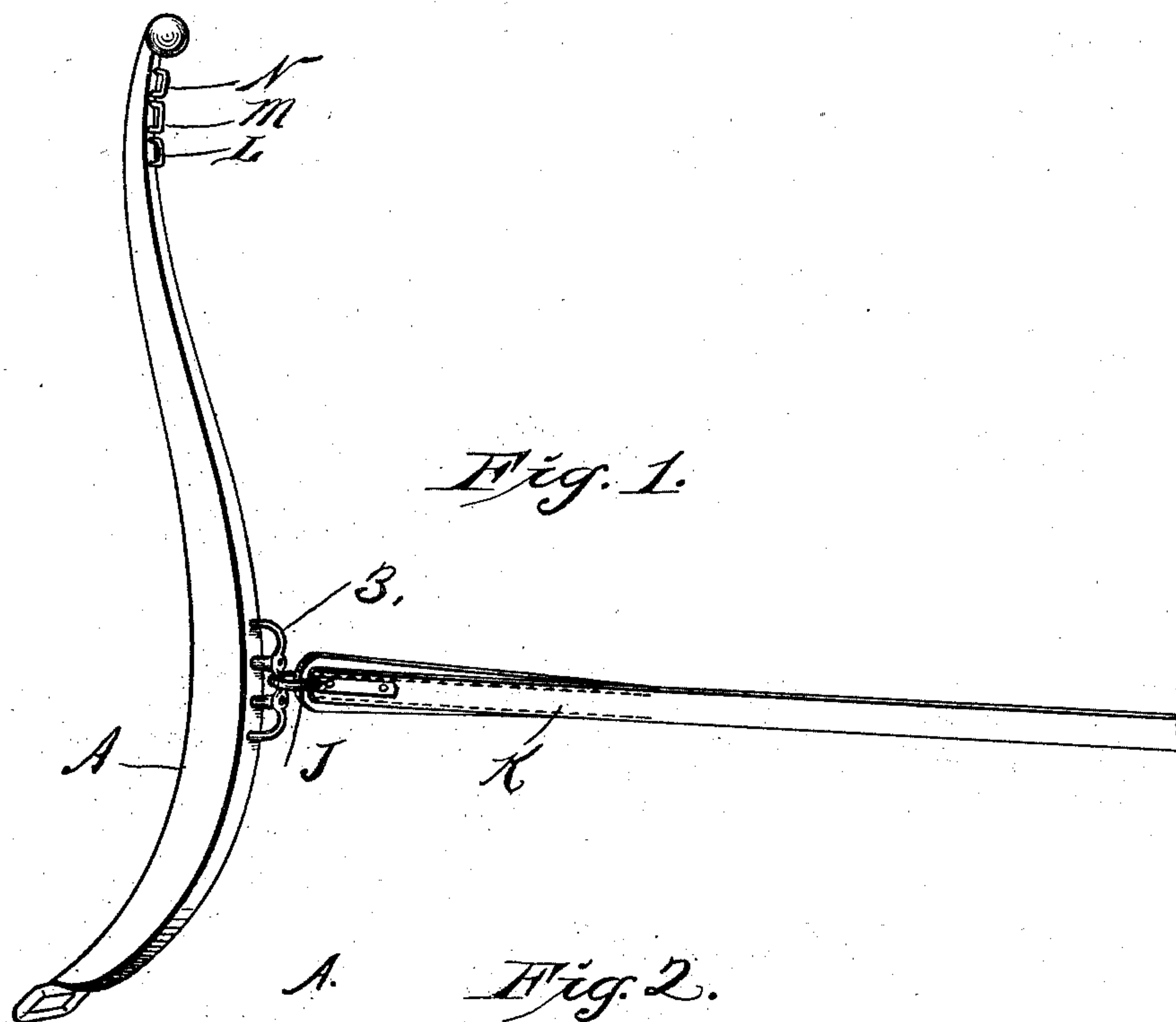


(No Model.)

J. A. O. LIVONI.
HAME STAPLE.

No. 505,470.

Patented Sept. 26, 1893.



Witnesses:

M. P. Smith
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Att'ys.

UNITED STATES PATENT OFFICE.

JOHN A. O. LIVONI, OF MARION, KANSAS.

HAME-STAPLE.

SPECIFICATION forming part of Letters Patent No. 505,470, dated September 26, 1893.

Application filed May 15, 1893. Serial No. 474,256. (No model.)

To all whom it may concern:

Be it known that I, JOHN A. O. LIVONI, of Marion, Marion county, Kansas, have invented certain new and useful Improvements in Adjustable Hame-Staples, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to hame attachments.

10 The object of my invention is to provide an attachment for hames, which is ornamental of appearance and which allows a vertical adjustment in attaching the trace to said hame attachment so that, if the collar be applied to
15 a horse having a deep or shallow neck the trace may be adjusted in such manner that the pull or strain will all come against the shoulders of the horse at the proper place.

A further object of my invention is to provide an attachment which is simple, durable and inexpensive of construction, and which may easily be applied to or removed from the hames.

25 With these objects in view, my invention consists in certain peculiar and novel features of construction and arrangement as will be hereinafter described and claimed.

In order that my invention may be fully understood, I will proceed to describe it with
30 reference to the accompanying drawings, in which—

Figure 1, is a perspective view of one section of the hames with my attachment applied thereto and showing the trace as secured to said attachment in operative position. Fig.
35 2, is a vertical sectional view of a portion of the hames and showing the manner of securing my attachment thereto. Fig. 3, is a detail view of one of the separator tubes.

40 Referring to the drawings, A designates one section of the hames, and B designates my improved attachment, which is of approximately U-form; the bridge portion of said attachment being scalloped at b , b' and b^2 as shown. The stems C of said U-shaped attachment are passed through the body of the hames and also through openings of a plate D, which is secured in a recess formed in the inner side of said hames, in such manner that
45 the outer side thereof will lie flush with the inner side of the hames. The inner end of these stems C are swaged at E, so as to pre-

vent the withdrawal of the attachment from the hame section A, and so as not to project therefrom, and rub or wear the collar. This
55 attachment is provided with openings G, H and I, by means of dividing tubes F which are preferably of conical form as shown, and which bear at their opposite ends against the outer face of the hames and the inner side of
60 the attachment B, at the juncture points of the scallops b , b' and b^2 . A screw bolt f is passed through openings formed through the attachment at said juncture points, and through the passage of the dividing tubes F
65 and also through openings in the hame section A, and have their screw threaded ends engaging screw threaded openings g in the retaining plate D as shown. The openings G, H and I, are preferably arranged the same
70 distance apart as the loops L, M and N, at the upper end of the hame section; said loops being designed to be used accordingly as the neck of the horse is deep or shallow. Now, when the collar is to be applied to a horse
75 having a medium sized neck, the clip J in the end of the trace K is adapted to engage with the scallop b' of the opening H, and the middle loop M at the upper end of the hames is adapted to be connected to a corresponding
80 loop of the other hame section (not shown) to adjust the hames to the required size of neck. When the collar is placed upon a horse having a deep neck, the uppermost loops N of the hame sections are connected to adjust the
85 hames to the required size and the clip of the trace is engaged with the scallop b , of the opening G. When the hames are placed upon a horse having a shallow neck, the loop L is used and the clip of the trace is engaged with
90 the scallop b^2 of opening I. By this arrangement, it will be seen, that the strain may always be brought directly against the shoulder of the horse. To disengage this clip J from one opening to engage it with another, for ex-
95 ample, to disengage the clip J from opening G to engage it with opening H, it is necessary only to remove the upper screw F which allows the upper dividing tube F to be moved; said clip J is then allowed to drop down to
100 the opening H and the dividing tube F and screw bolt f are returned to their original position; thus locking the clip J into the intermediate opening H as shown in Fig. 1. From

this description, it will be seen that I have provided an attachment to be secured upon hames, by which the trace may be adjusted vertically so that the pull or strain will be directly upon the shoulders of the horse, and also an attachment which is simple, strong, durable and inexpensive of construction and which may be easily attached to or detached from the collar.

10 Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A hames attachment, comprising a U-shaped rod having the stems thereof secured to the hame section, and provided with a series of dividing tubes, and screw bolts adapted to pass through said attachment, the dividing tubes and the hame section, to form a series of openings for the reception of the clip of the trace, substantially as set forth.

2. The combination with a hame having holes therethrough, of a retaining plate secured to the inner sides of said hames, and having screw threaded holes in alignment with the holes of the hames, and a U-shaped attachment having stems extending through said hames, and engaging openings in the retaining-plate and dividing tubes, and screw bolts adapted to pass through said attachment, through said dividing tubes and the hames and engage the screw thread openings in the retaining plate, substantially as set forth.

In testimony whereof I affix my signature in the presence of two witnesses.

JOHN A. O. LIVONI.

Witnesses:

MAUD FITZPATRICK,
M. P. SMITH.